

**ABSTRACT OF THE DISCLOSURE****MULTI-CARRIER TRAFFIC ALLOCATION ENHANCEMENTS  
TO REDUCE ACCESS FAILURES AND TO WORK ACROSS BANDS**

5           The carrier determination algorithm (CDA) used in multi carrier traffic  
allocation in mobile wireless digital telephony is enhanced. Access failure rates  
are reduced by the enhancements. One technique is based on selecting the  
originating carrier if capacity is available on that carrier. Availability of resources  
10       on other sections is also considered in selecting a carrier frequency, as is which  
carriers are data-filled with the same priority when carrier priorities are  
considered. Consideration is also given to possible alternative band carriers if in-  
band carriers do not have adequate capacity.